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IN THE UNITED STATES PATENT OFFICE

APPLICANT: Thomas Sommermann et al.

SERIAL NO.: US 10/529185

FILED: 13 Sep 2003

FOR: Mixture of Acid Red 80 and 82

DECLARATION

I, Thomas Sommermann, declare:

That I am a German citizen and I am resident at Altenberger Domstr. 69, 51467 Bergisch Gladbach, Germany;

That I am a chemist having graduated with the degree of Doctor rer. nat. at the University of Würzburg, Germany, in 2000.

That I am familiar with the field of organic dyestuffs;

That I am one of the joint inventors of US Patent Application Serial No. 10/529185 filed 13 Sep 2003;

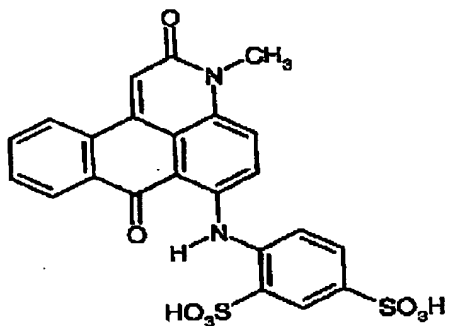
That I am familiar with the Office Action of May 04, 2006 and the references therein;

That the following dyestuffs were synthesized under my supervision and tested in the Application Department of LANXESS Deutschland GmbH in the manner mentioned below:

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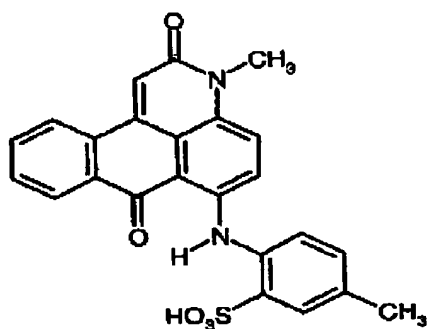
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A) a dye mixture containing Acid Red 82 of the formula I



(IIb)

and Acid Red 80 of the formula II

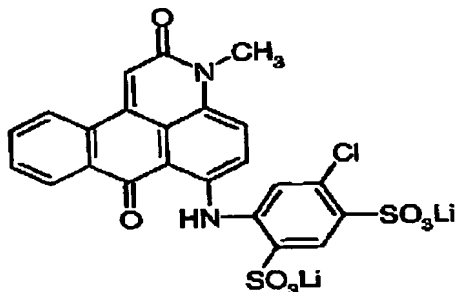


(IIc)

was prepared according to exp. 3 of the present invention.
(PCT/EP2003/010210) = US SN 10/529185.

B) a dye mixture containing Acid Red 82 (formula see above) and a dye of the formula III

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(III)

(identical to formula LM 14 of US-6,482,256) prepared in the same way as described in Exp. 3 of the present invention but using formula III instead of Acid Red 80.

Both Mixtures A and B respectively were each taken to prepare an ink A1 and B1 respectively in accordance with example 7 of the present invention.

Such inks A1 and B1 were stored under different conditions.

Results

Ink A1 (present invention)
after 6 months at room temperature and at 50 °C.
No precipitations were observed in each case.

ink B1 (comparison ink)
after 2 weeks at 50 °C precipitations were observed.

Conclusion

Surprisingly, it was found that the ink containing the dye mixture according to the present invention shows a substantial better storage stability than the ink that contains a non-inventive Acid Red 82 containing dye mixture.

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The undersigned declarant declares further that all statements made therein of his own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that wilful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that wilful false statements may jeopardize the validity of the application or any patent issuing thereon.

Signed at Leverkusen, Germany this 28th day of August, 2006.

